

Overdiagnosis of thyroid cancer in the Marne and Ardennes Departments of France from 1975 to 2014

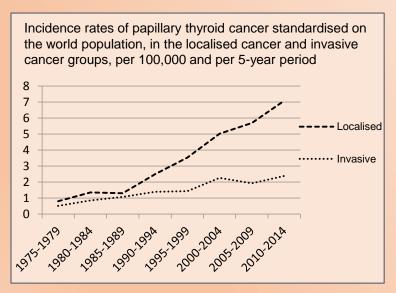


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Introduction: Incidence of thyroid cancer has increased considerably in France in recent years, but the mortality rate has declined only slightly. Part of this increased incidence could be attributable to overdiagnosis. We aimed to estimate the contribution of overdiagnosis to the incidence of papillary thyroid cancer.

Methods: Incidence rates were calculated based on data from the specialised Marnes-Ardennes thyroid cancer registry, for cancers diagnosed between 1975 and 2014, by age category and by five-year period. The population was divided into two groups according to pTNM classification at diagnosis (i.e. localised or invasive). Overdiagnosis was defined as the difference in incidence rates between the invasive cancer and localised cancer groups. This rate was then divided by the incidence rate in the localised cancer group for the most recent period (2010-2014) to obtain the proportion of cancers attributable to overdiagnosis.

Results: In total, 2008 patients were included.



Proportion of incidence attributable to overdiagnosis for the period	
2010-2014 in women and men, by age group	
	2010-2014
Women <50 years	
Women Coo years	
Overdiagnosis rate (per 100,000)	4.20
Percentage overdiagnosis (%)	62
Women ≥50 years	
Women 200 years	
Overdiagnosis rate (per 100,000)	3.45
Percentage overdiagnosis (%)	73
Men <50 years	
mon too years	
Overdiagnosis rate (per 100,000)	0.07
Percentage overdiagnosis (%)	/
Men ≥50 years	
230 Table	
Overdiagnosis rate (per 100,000)	1.00
	0.5
Percentage overdiagnosis (%)	65

Conclusion: We observed a high proportion of cancers attributable to overdiagnosis. This finding raises the issue of patient management, with the risk of overtreatment, and the repercussions on quality of life for patients diagnosed with cancer.